

ABSTRACT OF THE DISCLOSURE

An amplifier comprises a first amplifier circuit which amplifies a first signal to output an amplified first signal, a circuit which outputs a second signal corresponding to a difference between the first signal and the amplified first signal, a second amplifier circuit which amplifies the second signal to output an amplified second signal, a combine circuit which outputs an amplified signal by combining the amplified second signal with the amplified first signal, and a controller which controls a supply of a power to the first amplifier circuit and the second amplifier circuit and has a first mode to supply the power to the second amplifier circuit without supplying the power to the first amplifier circuit.